



Whisper quiet, disturbance free, major energy savings:

DeLaval Launches Revolutionary New Variable Speed Drive



Tord Ringenhall – Product Manager M. Sc.

A revolutionary variable speed drive for dairy industry vacuum pumps that slashes energy use by up to 70% while dramatically cutting noise levels and electro-magnetic disturbance, has been launched by DeLaval, the world's leading dairy equipment maker. Available in many markets around the world, the new DeLaval NFO Drive exceeds CE requirements and has undergone thorough testing by independent test institutes.

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The new NFO variable speed drive from DeLaval is a technological revolution that banishes once and for all the risk for electromagnetic noise from variable speed drives.

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The NFO Drive delivers a host of revolutionary benefits that make it unique to the dairy industry. The easy to install and easy to use unit, which can be speedily attached to an existing vacuum pump, automatically monitors a milking system, quickly responding to any changes in airflow by varying the speed of the pump.

The unit, available both for upgrades of existing vacuum pumps and in the DeLaval Vacuum Pump DVP900NFO, provides unprecedented control and the steadiest, most accurate vacuum level for optimal results. The drive's user friendly interface shows running status and it comes fully preset from factory for optimized running of the vacuum pump.

Designed to make a real difference in the barn for both cows and farm hands, the new DeLaval NFO Drive also reduces electricity costs by up to 70% and it's virtually maintenance free. Pre-programmed, it is extremely easy to install and can be combined with standard Residual-Current Device (RCD).

“Our new drive is another step towards a smarter dairy farming future. The advanced technology controls the vacuum level, automatically varying the pump's speed to maintain an even and accurate vacuum level,” continues Ringenhall.

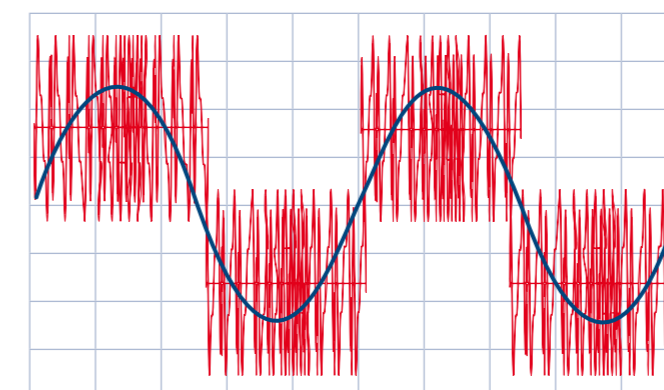


More accurate vacuum control offers improved udder health and milking quality. Other benefits include reduced wear and less maintenance as a result of the regulator quickly and smoothly responding to milk flow fluctuations by matching the pump output to the exact needs of the milking system.

Another tangible benefit of the revolutionary NFO drive is that it does not interfere with electrical equipment such as herd management systems and cow identification. It also boasts a built-in RFI/EMI filter to ensure that radio and electromagnetic emissions cannot disrupt an ID system.

“Studies have shown that by maintaining a constant vacuum level and only producing the right amount of airflow, the new NFO variable speed drive provides energy savings that can help pay off the initial investment in record time –hopefully even within a year. We are first out in the dairy industry with a whisper-silent variable speed drive for vacuum pumps that addresses the source of the EMC problem rather than the symptoms,” concludes Ringenhall.

NFO vs conventional variable speed drive



■ NFO
■ Conventional speed drive

The difference between NFO and a conventional speed drive technology can be clearly seen in the oscilloscope: The conventional speed drive technology chops the voltage up into short, uneven pulses, while the NFO technology generates an even curve.

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